

PROJECT

0501212

DESIGNATION

-

CONTRACT

R-28940

BRIDGE FILE

SEE GENERAL PLAN

KIN DESIGNATION NUMBERS

PART	DESIGNATION	DESCRIPTION
1	0501212	I-65 ROAD PLANS
2	0501212	I-65 CROSS SECTIONS
3	0501212	I-65 TRAFFIC PLANS
4	1601732 & 1601733	I-65 OVER CSX RAILROAD
5	1592538 & 1592536	I-65 OVER MUTTON CREEK DITCH
6	1601840 & 1601970	I-65 OVER EAST FORK OF WHITE RIVER
7	1601841 & 1601920	I-65 OVER EAST FORK OF WHITE RIVER, OVERFLOW NO. 1
8	1592568 & 1592576	I-65 OVER EAST FORK OF WHITE RIVER, OVERFLOW NO. 2
9	1592575 & 1592589	I-65 OVER EAST FORK OF WHITE RIVER, OVERFLOW NO. 3
10	1592590 & 1592592	I-65 OVER L & I RAILROAD
11	1592595 & 1592594	I-65 OVER ABLE DITCH
12	1592600 & 1592599	I-65 OVER SMALLS CREEK
13	1700256	ENOS ROAD OVER I-65
13	1700257	CR 800 NORTH OVER I-65
13	1700258	REDDING ROAD OVER I-65
13	1700259	SR 11 OVER I-65
13	1700260	COUNTYLINE ROAD OVER I-65
13	1700261	CR 950 SOUTH OVER I-65
13	1700262	CR 625 SOUTH OVER I-65
14	1383528 & 1383529	I-65 OVER DENOIS CREEK

INDIANA DEPARTMENT
OF TRANSPORTATION

INDIANA
DEPARTMENT
OF TRANSPORTATION

BRIDGE REHABILITATION PLANS

FOR SPANS OVER 20 FEET
INTERSTATE 65
ENOS ROAD, CR800N, REDDING ROAD, SR11, CENTERLINE ROAD, CR950 SOUTH, CR625 SOUTH
OVER I-65

PROJECT NO. 0501212

PROJECT NO. 0501212

P.E.
CONST.

R-28940

Part 13 of 14

PROJECT LOCATION
I65-062-04659 A

PROJECT LOCATION
I65-058-04658 A

PROJECT LOCATION
I65-057-04657 A

PROJECT LOCATION
31A-36-04655 C

PROJECT LOCATION
I65-053-04650 A

PROJECT LOCATION
I65-052-05042 A

PROJECT LOCATION
I65-052-04254 B

Scale 1" = 5000'

LOCATION MAP

PROJECT LOCATION SHOWN BY
JACKSON COUNTY

[INDIANA DEPARTMENT OF TRANSPORTATION
STANDARD SPECIFICATIONS DATED 2016 TO BE
USED WITH THESE PLANS]

BRIDGE FILE

SEE GENERAL PLAN

DESIGNATION

-

SURVEY BOOK

1

of

9

CONTRACT

R-28940

SHEETS

PROJECT

0501212

PLANS
PREPARED BY: UNITED CONSULTING 317-895-2585
PHONE NUMBER

CERTIFIED BY: DATE

APPROVED
FOR LETTING: INDIANA DEPARTMENT OF TRANSPORTATION DATE

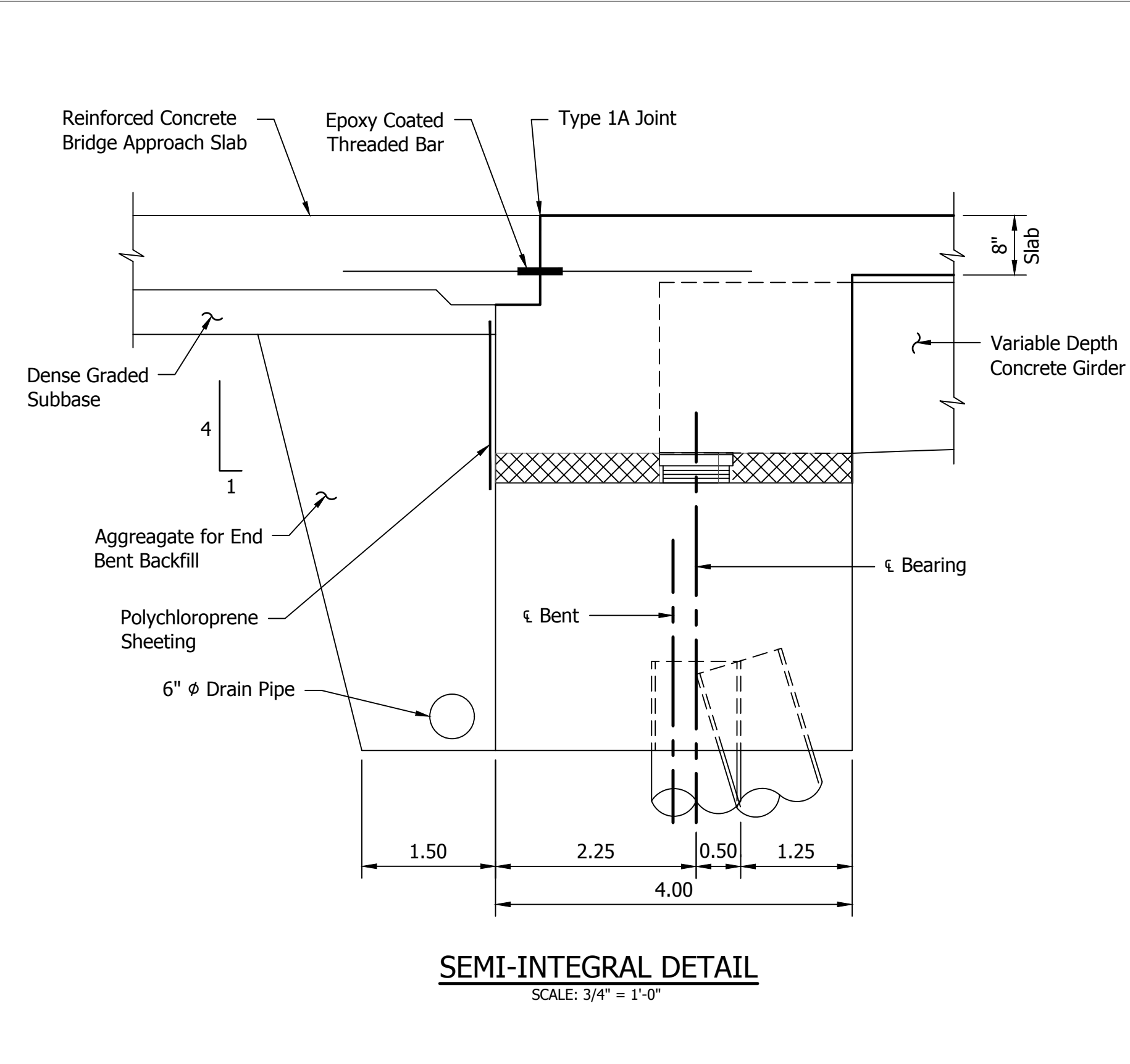
1625 N. Post Road
Indianapolis, Indiana 46219
Phone: 317-895-2585
Fax: 317-895-2596 Web: www.ucindy.com

File Name: P:\C3D\MK16-465\Bridge\Bridge Str 27 CR625S\Title.dwg Plot Date: 4/25/2017 Plotted By: Zola, David

[illegible]

GENERAL NOTES	

NOTE TO REVIEWER:
Layout and Substructure Detail sheets will be provided after award of the contract. The proposed scope of work has been identified on the General Plan sheet. The overpass bridge will be closed to traffic. A detour route will be prepared after award of the contract.

[illegible][illegible]

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RECOMMENDED
FOR APPROVAL

DESIGN ENGINEER DATE

DESIGNED: <u>CJD</u>	DRAWN: <u>DJZ</u>
CHECKED: <u>BSF</u>	CHECKED: <u>CJD</u>

INDIANA
DEPARTMENT OF TRANSPORTATION

INDEX

HORIZONTAL SCALE	BRIDGE FILE		
AS SHOWN	SEE GENERAL PLAN		
VERTICAL SCALE	DESIGNATION		
AS SHOWN	-		
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CONTRACT	PROJECT		
R-28940	0501212		

GENERAL NOTES

1.

Existing plans for this structure are on file in the records unit of the Indiana Department of Transportation as Bridge File 165-052-04254 A.
2.

Where new work is to be fitted to old work, the Contractor shall check all dimensions and conditions in the field and report any discrepancies to the Engineer and assume responsibility for their correctness and fit of the new part to the old.
3.

Reinforcing steel covering shall be 2 1/2" in top and 1" min. in bottom of floor slabs, and 2" in all other parts, unless noted.
4.

Surface seal all exposed surfaces of approach slabs, face of deck coping and outer 6" of the underside of deck.
5.

Stations shown are from the existing plans on file. The stations will be updated for the proposed alignment for Final Deign.

DESIGN DATA

Designed for HS-20-44 loading in accordance with 2002 AASHTO Standard Specifications for Highway Bridges 17th Edition and all Subsequent Interim Specifications.

ULTIMATE DESIGN STRESSES

Class "A" Concrete	f'c = 3,500 p.s.i.
Class "B" Concrete	f'c = 3,000 p.s.i.
Class "C" Concrete	f'c = 4,000 p.s.i.
Reinforcing Steel (Grade 60)	fy = 60,000 p.s.i.

LEGEND

- (A)

Remove and replace existing overlay
- (B)

Surface mill the existing surface and perform hydro-demolition to remove any unsound concrete.
- (C)

All delaminated areas of the bridge deck shall be partial or full depth patched.
- (D)

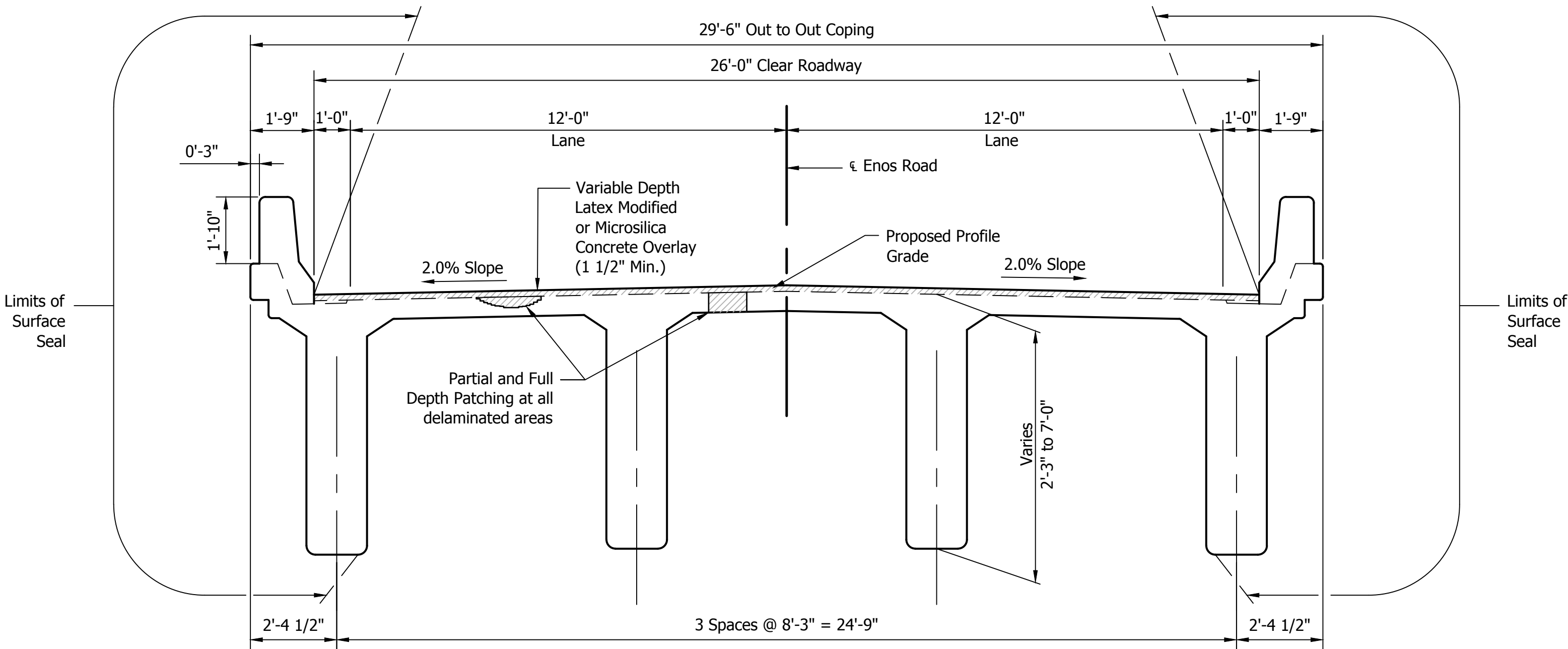
Convert the existing end bents to semi integral end bents. Sawcut the existing mudwall to the bridge seat and remove 5 feet of the deck. Jack and support the beams to replace the existing bearings (See sheet 2).
- (E)

Place a variable depth latex modified or micro silica concrete deck overlay
- (F)

Remove and replace the reinforced concrete approach slabs.
- (G)

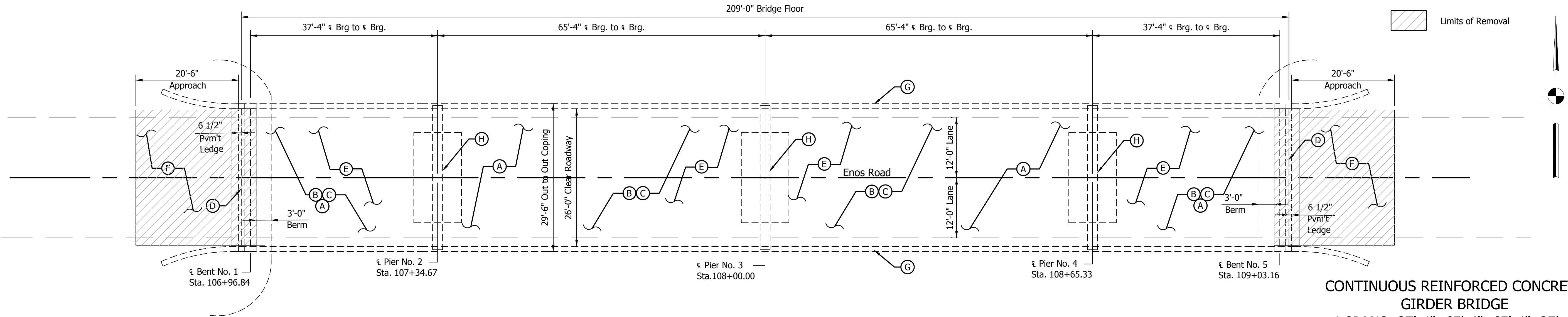
Existing bridge railing and copings to remain shall be surface sealed.
- (H)

Patch piers, superstructure and undersides of deck as necessary to repair all delamination and spalling.



EXISTING TYPICAL SECTION

SCALE: 3/8" = 1'-0"



PLAN VIEW

SCALE: 3/32" = 1'-0"

CONTINUOUS REINFORCED CONCRETE GIRDER BRIDGE
4 SPANS: 37'-4", 65'-4", 65'-4", 37'-4"
26'-0" CLEAR ROADWAYS
SKEW: 0°
ENOS ROAD OVER I-65



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DESIGN ENGINEER DATE

DESIGNED: CJD DRAWN: DJZ
CHECKED: BSF CHECKED: CJD

INDIANA
DEPARTMENT OF TRANSPORTATION

GENERAL PLAN
ENOS ROAD OVER I-65

HORIZONTAL SCALE AS SHOWN	BRIDGE FILE 165-052-04254 B
VERTICAL SCALE AS SHOWN	DESIGNATION -
SURVEY BOOK -	SHEETS 3 of 9
CONTRACT R-28940	PROJECT 0501212

GENERAL NOTES

- Existing plans for this structure are on file in the records unit of the Indiana Department of Transportation as Bridge File 165-052-05042.
- Where new work is to be fitted to old work, the Contractor shall check all dimensions and conditions in the field and report any discrepancies to the Engineer and assume responsibility for their correctness and fit of the new part to the old.
- Reinforcing steel covering shall be 2 1/2" in top and 1" min. in bottom of floor slabs, and 2" in all other parts, unless noted.
- Surface seal all exposed surfaces of approach slabs, face of deck coping and outer 6" of the underside of deck.
- Stations shown are from the existing plans on file. The stations will be updated for the proposed alignment for Final Deign.

DESIGN DATA

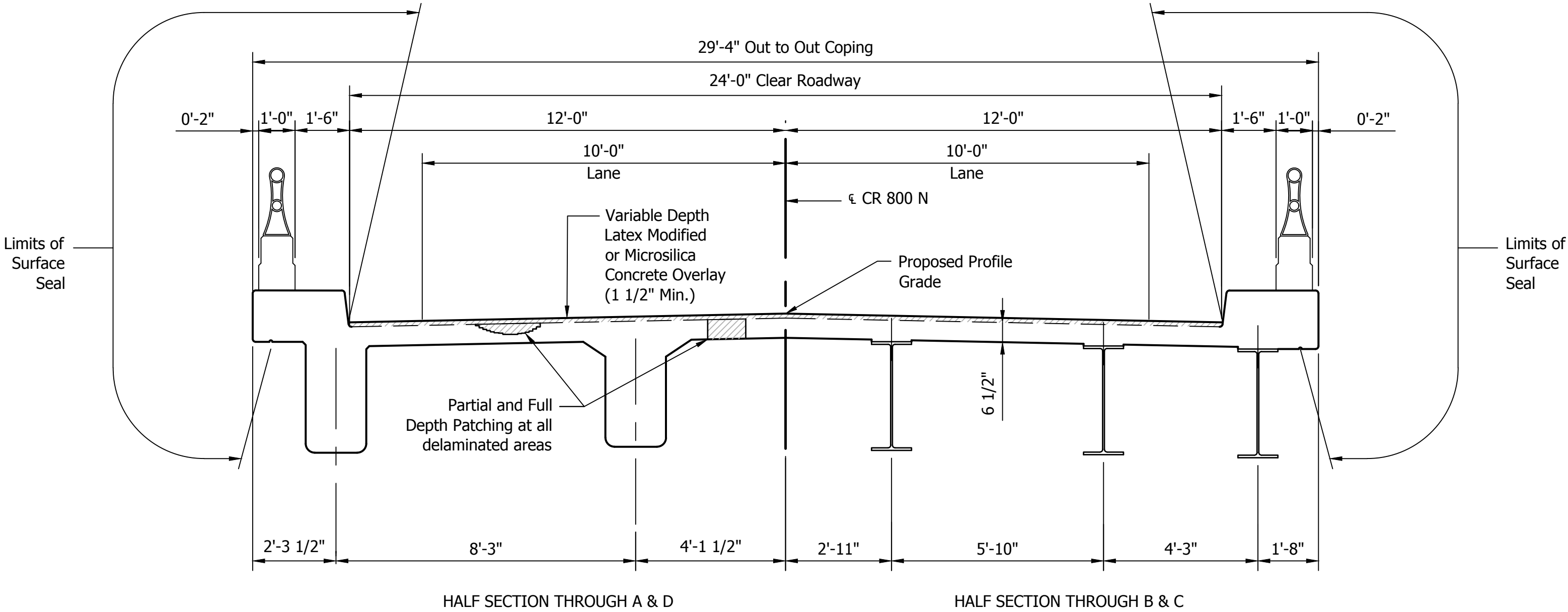
Designed for HS-20-44 loading in accordance with 2002 AASHTO Standard Specifications for Highway Bridges 17th Edition and all Subsequent Interim Specifications.

ULTIMATE DESIGN STRESSES

Class "A" Concrete	f'c = 3,500 p.s.i.
Class "B" Concrete	f'c = 3,000 p.s.i.
Class "C" Concrete	f'c = 4,000 p.s.i.
Reinforcing Steel (Grade 60)	fy = 60,000 p.s.i.
Structural Steel ASTM A709 (Grade 50)	fy = 50,000 p.s.i.

LEGEND

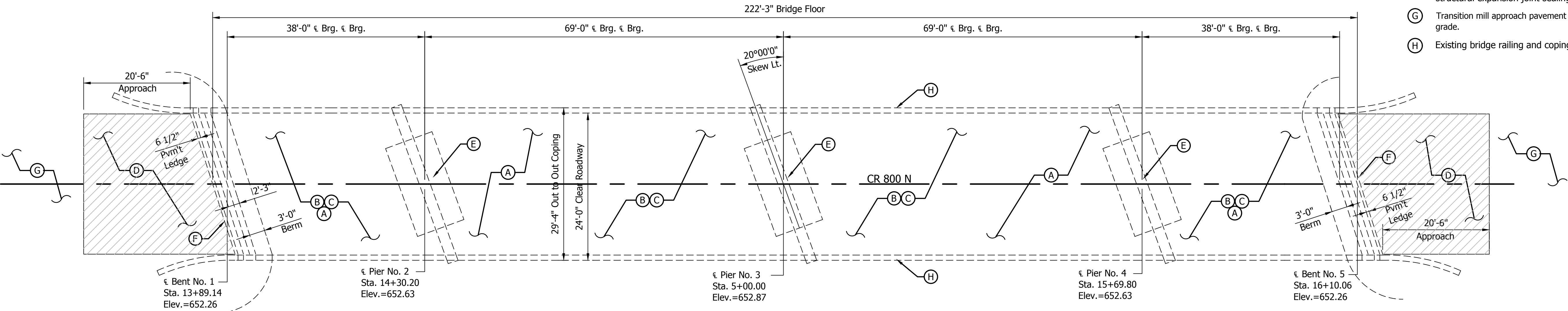
- (A) Surface mill the existing surface and perform hydro-demolition to remove any unsound concrete.
- (B) All delaminated areas of the bridge deck shall be partial or full depth patched.
- (C) Place a variable depth latex modified or micro silica concrete deck overlay.
- (D) Remove and replace the reinforced concrete approach slabs.
- (E) Patch piers, superstructure and undersides of deck as necessary to repair all delamination and spalling.
- (F) Remove existing bridge joint expansion material and replace with structural expansion joint sealing system.
- (G) Transition mill approach pavement to accommodate change in profile grade.
- (H) Existing bridge railing and copings to remain shall be surface sealed.



EXISTING TYPICAL SECTION

SCALE: 3/8" = 1'-0"

Limits of Removal



PLAN VIEW

SCALE: 3/32" = 1'-0"

REINFORCED CONCRETE GIRDER
AND CONTINUOUS STEEL BEAM BRIDGE
4 SPANS: 38'-0", 69'-0", 69'-0", 38'-0"
24'-0" CLEAR ROADWAYS
SKEW: 20°00'00" LEFT
COUNTY ROAD 800 NORTH OVER I-65



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DESIGN ENGINEER DATE

DESIGNED: CJD DRAWN: DJZ
CHECKED: BSF CHECKED: CJD

INDIANA
DEPARTMENT OF TRANSPORTATION

GENERAL PLAN
CR 800 NORTH OVER I-65

HORIZONTAL SCALE AS SHOWN	BRIDGE FILE 165-052-05042 A
VERTICAL SCALE AS SHOWN	DESIGNATION -
SURVEY BOOK -	SHEETS 4 of 9
CONTRACT R-28940	PROJECT 0501212

GENERAL NOTES

1.

Existing plans for this structure are on file in the records unit of the Indiana Department of Transportation as Bridge File 165-053-04650.
2.

Where new work is to be fitted to old work, the Contractor shall check all dimensions and conditions in the field and report any discrepancies to the Engineer and assume responsibility for their correctness and fit of the new part to the old.
3.

Reinforcing steel covering shall be 2 1/2" in top and 1" min. in bottom of floor slabs, and 2" in all other parts, unless noted.
4.

Surface seal all exposed surfaces of approach slabs, face of deck coping and outer 6" of the underside of deck.
5.

Stations shown are from the existing plans on file. The stations will be updated for the proposed alignment for Final Deign.

DESIGN DATA

Designed for HS-20-44 loading in accordance with 2002 AASHTO Standard Specifications for Highway Bridges 17th Edition and all Subsequent Interim Specifications.

ULTIMATE DESIGN STRESSES

Class "A" Concrete	f'c = 3,500 p.s.i.
Class "B" Concrete	f'c = 3,000 p.s.i.
Class "C" Concrete	f'c = 4,000 p.s.i.
Reinforcing Steel (Grade 60)	fy = 60,000 p.s.i.

LEGEND

- (A)

Surface mill the existing surface and perform hydro-demolition to remove any unsound concrete.
- (B)

All delaminated areas of the bridge deck shall be partial or full depth patched.
- (C)

Place a variable depth latex modified or micro silica concrete deck overlay.
- (D)

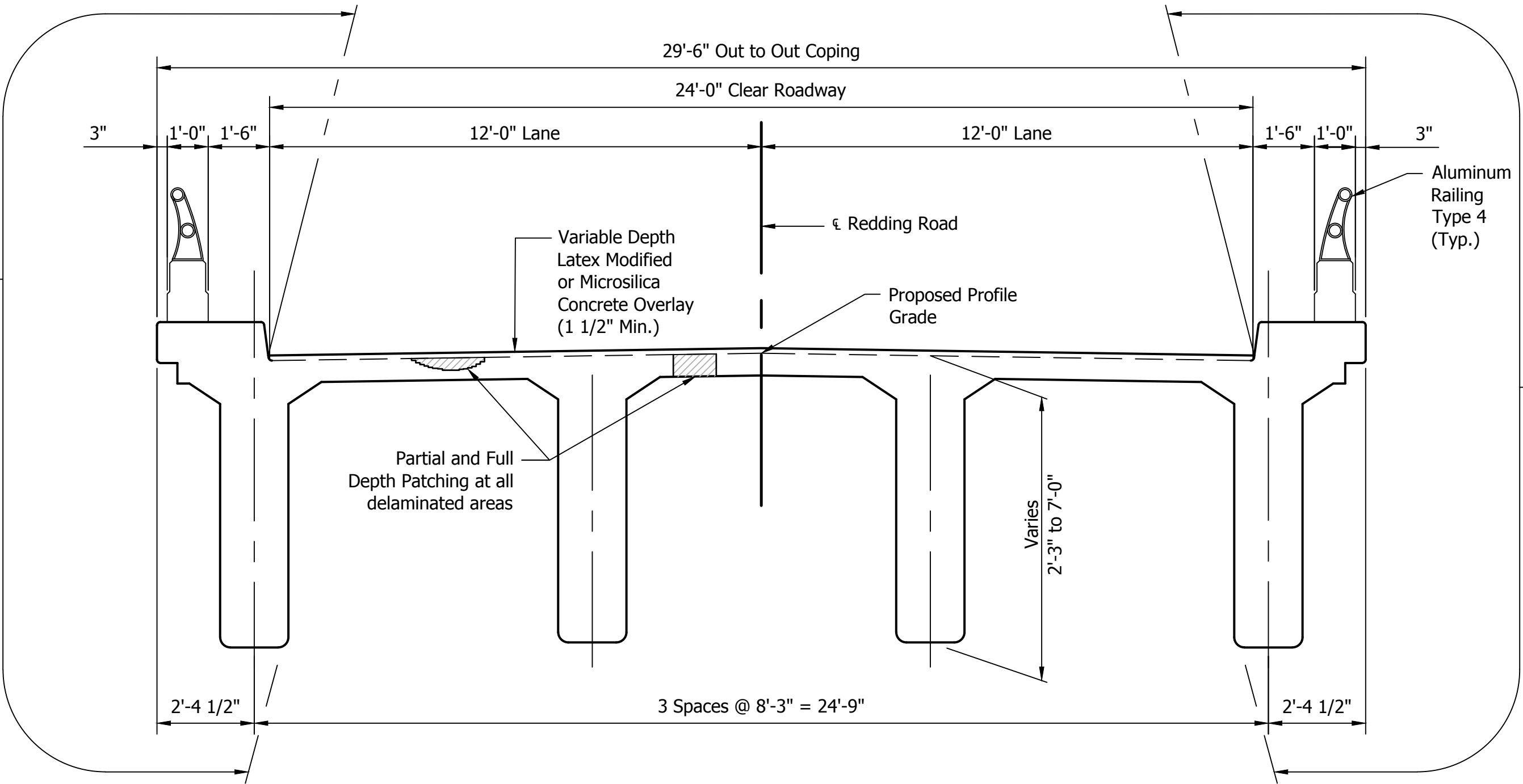
Remove and replace the reinforced concrete approach slabs.
- (E)

Patch piers, superstructure and undersides of deck as necessary to repair all delamination and spalling.
- (F)

Convert the existing and bents to semi integral end bents. Sawcut the existing mudwall to the bridge seat and remove 5 feet of the deck. Jack and support the beams to replace the existing bearings (See Sheet 2).
- (G)

Transition mill approach pavement to accommodate change in profile grade.
- (H)

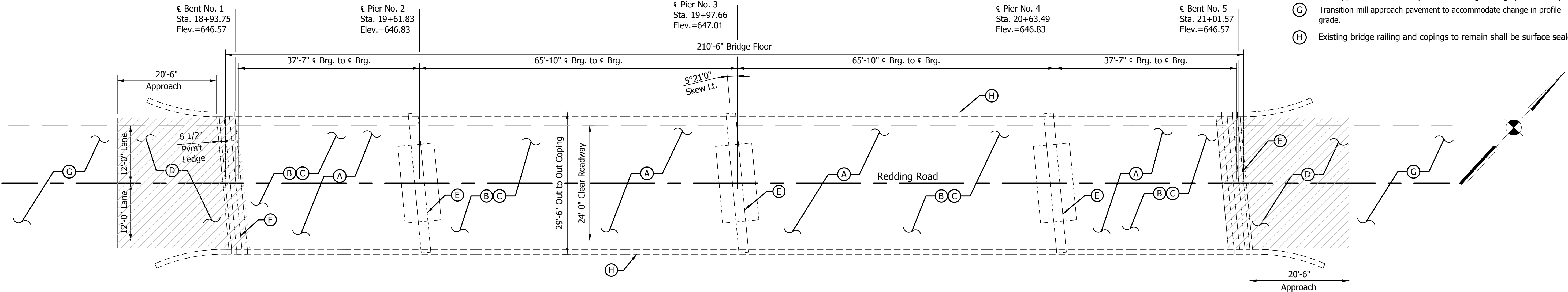
Existing bridge railing and copings to remain shall be surface sealed.



EXISTING TYPICAL SECTION

SCALE: 3/8" = 1'-0"

Limits of Removal



PLAN VIEW

SCALE: 3/32" = 1'-0"

CONTINUOUS REINFORCED
CONCRETE GIRDER BRIDGE
4 SPANS: 37'-7", 65'-10", 65'-10", 37'-7"
24'-0" CLEAR ROADWAYS
SKEW: 5°21'00" LEFT
REDDING ROAD OVER I-65



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DESIGNED: CJD DRAWN: DJZ
CHECKED: BSF CHECKED: CJD

INDIANA
DEPARTMENT OF TRANSPORTATION

GENERAL PLAN
REDDING ROAD OVER I-65

HORIZONTAL SCALE	BRIDGE FILE
AS SHOWN	165-053-04650 A
VERTICAL SCALE	DESIGNATION
AS SHOWN	-
SURVEY BOOK	SHEETS
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CONTRACT	PROJECT
R-28940	0501212

GENERAL NOTES

1.

Existing plans for this structure are on file in the records unit of the Indiana Department of Transportation as Bridge File I65-057-04657.
2.

Where new work is to be fitted to old work, the Contractor shall check all dimensions and conditions in the field and report any discrepancies to the Engineer and assume responsibility for their correctness and fit of the new part to the old.
3.

Reinforcing steel covering shall be 2 1/2" in top and 1" min. in bottom of floor slabs, and 2" in all other parts, unless noted.
4.

Surface seal all exposed surfaces of approach slabs, face of deck coping and outer 6" of the underside of deck.
5.

Stations shown are from the existing plans on file. The stations will be updated for the proposed alignment for Final Deign.

DESIGN DATA

Designed for HS-20-44 loading in accordance with 2002 AASHTO Standard Specifications for Highway Bridges 17th Edition and all Subsequent Interim Specifications.

ULTIMATE DESIGN STRESSES

Class "A" Concrete	f'c = 3,500 p.s.i.
Class "B" Concrete	f'c = 3,000 p.s.i.
Class "C" Concrete	f'c = 4,000 p.s.i.
Reinforcing Steel (Grade 60)	fy = 60,000 p.s.i.

LEGEND

- (A)

Surface mill the existing surface and perform hydro-demolition to remove any unsound concrete.
- (B)

All delaminated areas of the bridge deck shall be partial or full depth patched.
- (C)

Place a variable depth latex modified or micro silica concrete deck overlay.
- (E)

Remove and replace the reinforced concrete approach slabs.
- (F)

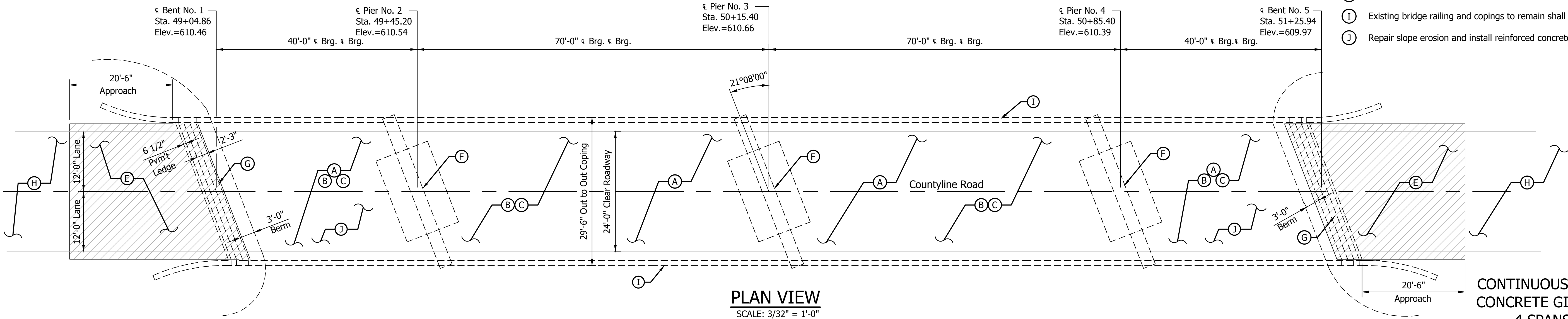
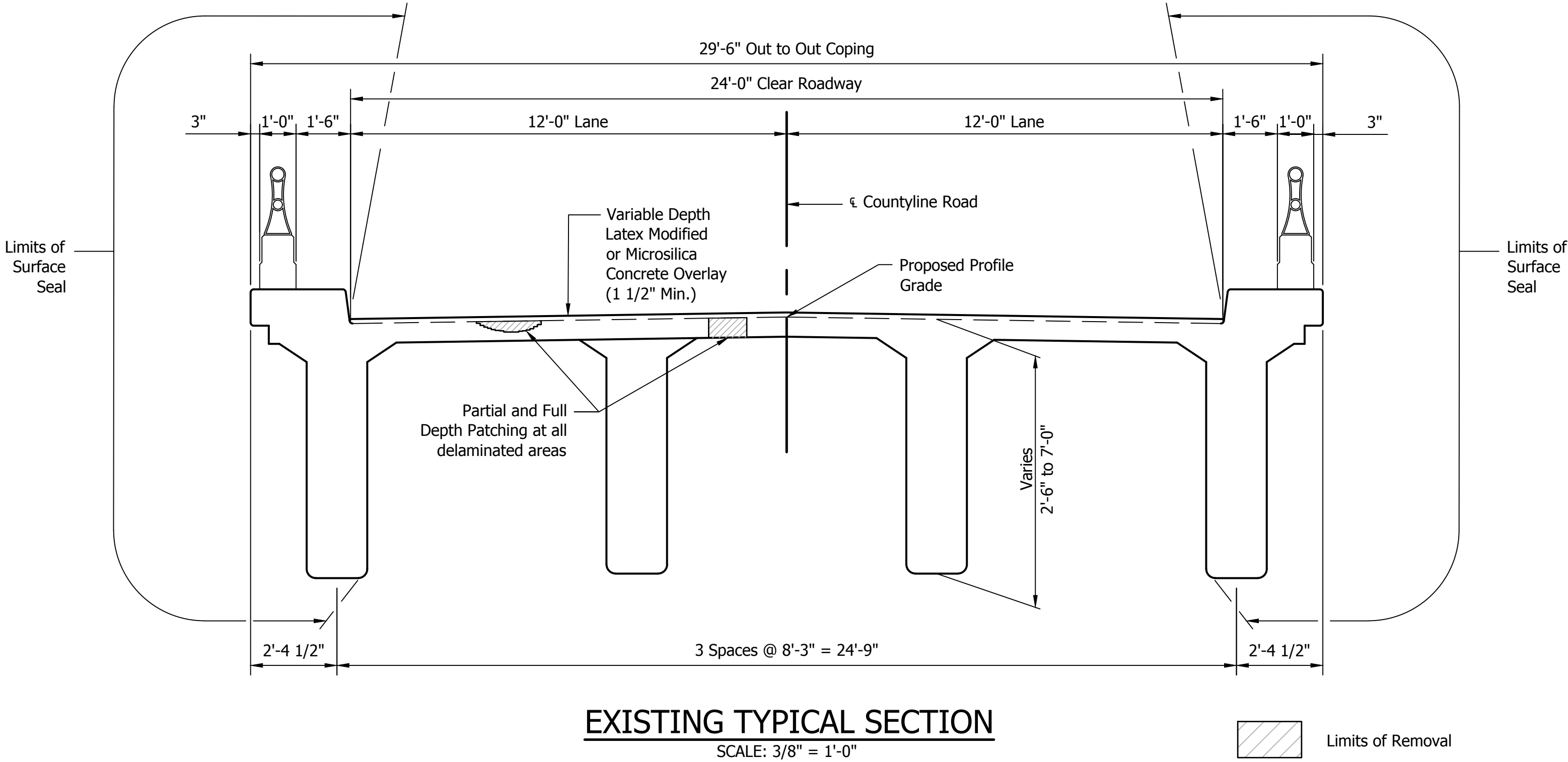
Patch piers, superstructure and undersides of deck as necessary to repair all delamination and spalling.
- (G)

Convert the existing and bents to semi integral end bents. Sawcut the existing mudwall to the bridge seat and remove 5 feet of the deck. Jack and support the beams to replace the existing bearings. (See Sheet 2).
- (H)

Transition mill approach pavement to accommodate change in profile grade.
- (I)

Existing bridge railing and copings to remain shall be surface sealed.
- (J)

Repair slope erosion and install reinforced concrete slopewalls at bents.



CONTINUOUS REINFORCED
CONCRETE GIRDER BRIDGE
4 SPANS: 40'-0",
2 @ 70'-0", 40'-0"
24'-0" CLEAR ROADWAYS
SKEW: 21°08'0" LEFT
COUNTYLINE ROAD OVER I-65



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DESIGNED: CJD DRAWN: DJZ
CHECKED: BSF CHECKED: CJD

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GENERAL PLAN
COUNTYLINE ROAD OVER I-65

HORIZONTAL SCALE	BRIDGE FILE
AS SHOWN	I65-057-04657 A
VERTICAL SCALE	DESIGNATION
AS SHOWN	-
SURVEY BOOK	SHEETS
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CONTRACT	PROJECT
R-28940	0501212

GENERAL NOTES

- Existing plans for this structure are on file in the records unit of the Indiana Department of Transportation as Bridge File I65-058-04658.
- Where new work is to be fitted to old work, the Contractor shall check all dimensions and conditions in the field and report any discrepancies to the Engineer and assume responsibility for their correctness and fit of the new part to the old.
- Reinforcing steel covering shall be 2 1/2" in top and 1" min. in bottom of floor slabs, and 2" in all other parts, unless noted.
- Surface seal all exposed surfaces of approach slabs, face of deck coping and outer 6" of the underside of deck.
- Stations shown are from the existing plans on file. The stations will be updated for the proposed alignment for Final Deign.

DESIGN DATA

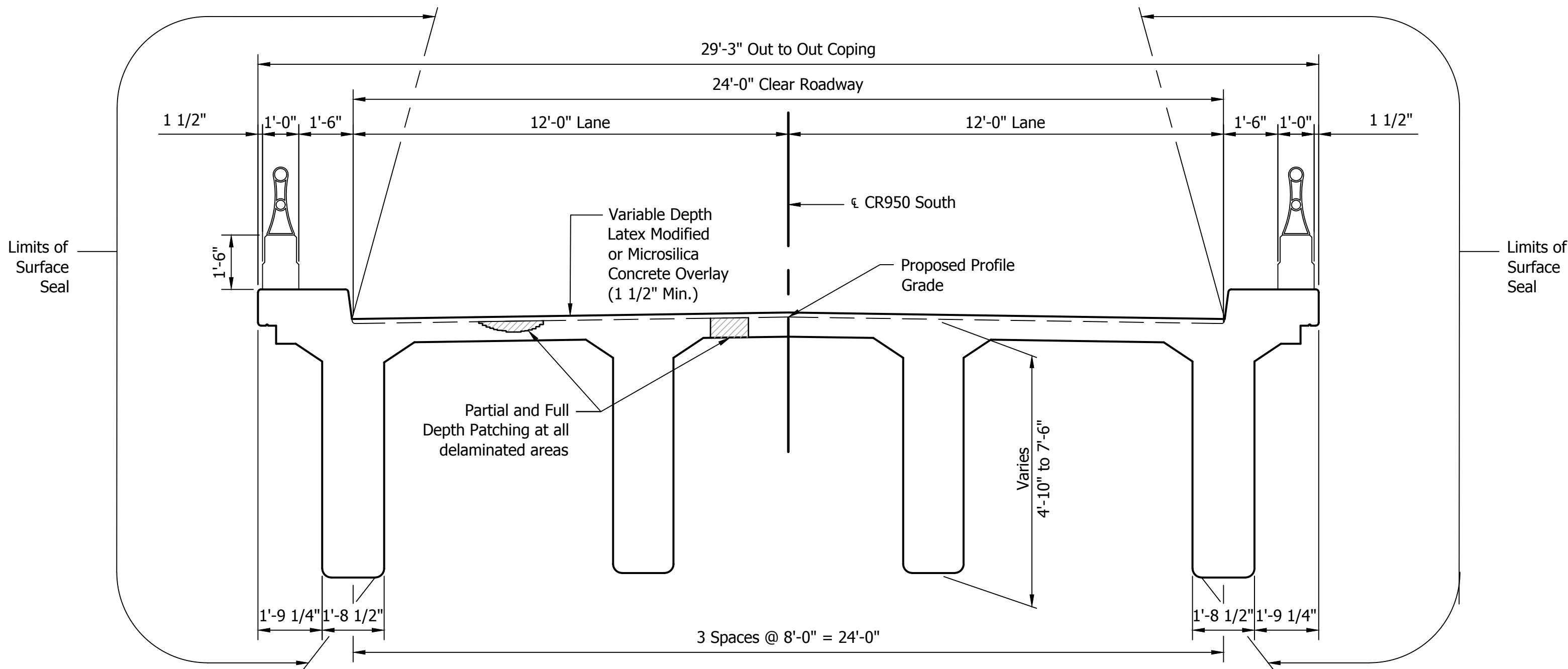
Designed for HS-20-44 loading in accordance with 2002 AASHTO Standard Specifications for Highway Bridges 17th Edition and all Subsequent Interim Specifications.

ULTIMATE DESIGN STRESSES

Class "A" Concrete	$f'_c = 3,500$ p.s.i.
Class "B" Concrete	$f'_c = 3,000$ p.s.i.
Class "C" Concrete	$f'_c = 4,000$ p.s.i.
Reinforcing Steel (Grade 60)	$f_y = 60,000$ p.s.i.

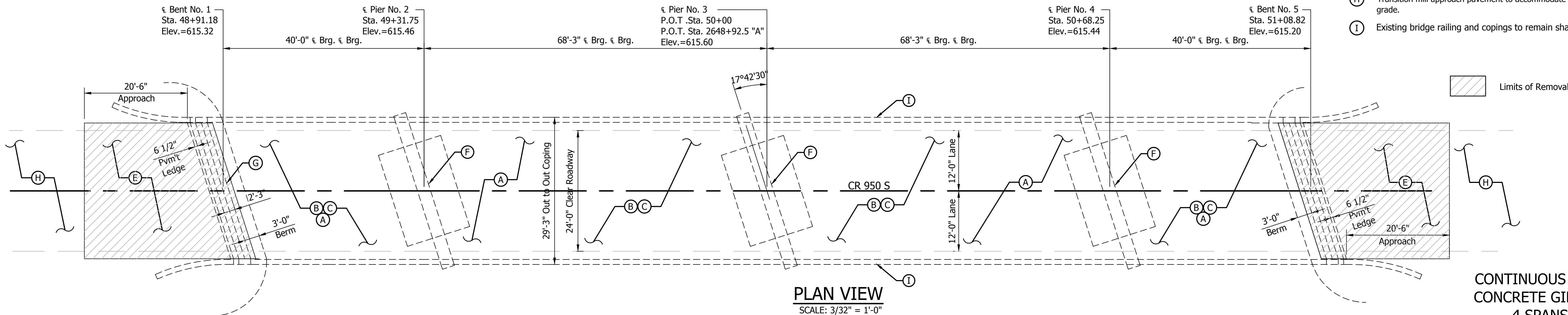
LEGEND

- (A) Surface mill the existing surface and perform hydro-demolition to remove any unsound concrete.
- (B) All delaminated areas of the bridge deck shall be partial or full depth patched.
- (C) Place a variable depth latex modified or micro silica concrete deck overlay.
- (E) Remove and replace the reinforced concrete approach slabs.
- (F) Patch piers, superstructure and undersides of deck as necessary to repair all delamination and spalling.
- (G) Convert the existing and bents to semi integral end bents. Sawcut the existing mudwall to the bridge seat and remove 5 feet of the deck. Jack and support the beams to replace the existing bearings (See Sheet 2).
- (H) Transition mill approach pavement to accommodate change in profile grade.
- (I) Existing bridge railing and copings to remain shall be surface sealed.



EXISTING TYPICAL SECTION

SCALE: 3/8" = 1'-0"



PLAN VIEW

SCALE: 3/32" = 1'-0"

CONTINUOUS REINFORCED
CONCRETE GIRDER BRIDGE
4 SPANS: 40'-0",
2 @ 68'-3", 40'-0"
24'-0" CLEAR ROADWAY
SKEW: 17°42'30" LEFT
CR950 SOUTH OVER I-65



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FOR APPROVAL

DESIGN ENGINEER DATE

DESIGNED: CJD

DRAWN: DJZ

CHECKED: BSF

CHECKED: CJD

INDIANA
DEPARTMENT OF TRANSPORTATION

GENERAL PLAN
CR950 SOUTH OVER I-65

HORIZONTAL SCALE

AS SHOWN

VERTICAL SCALE

AS SHOWN

BRIDGE FILE

I65-058-04658 A

DESIGNATION

-

SURVEY BOOK

-

CONTRACT

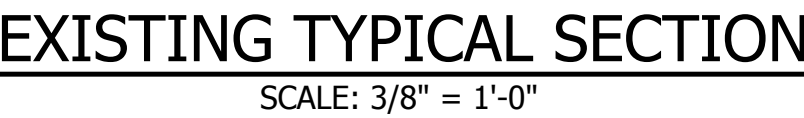
R-28940

SHEETS

8 of 9

PROJECT

0501212



- (A) Surface mill the existing surface and perform hydro-demolition to remove any unsound concrete.
- (B) All delaminated areas of the bridge deck shall be partial or full depth patched.
- (C) Place a variable depth latex modified or micro silica concrete deck overlay.
- (E) Remove and replace the reinforced concrete approach slabs.
- (F) Patch piers, superstructure and undersides of deck as necessary to repair all delamination and spalling.
- (G) Convert the existing and bents to semi integral end bents. Sawcut the existing wall to the bridge seat and remove 5 feet of the deck. Jack and support the beams to replace the existing bearings. (See Sheet 2).
- (H) Transition mill approach pavement to accommodate change in profile grade.
- (I) Existing bridge railing and copings to remain shall be surface sealed.

PLAN VIEW

SCALE: $\frac{3}{32}'' = 1'-0''$

CONTINUOUS REINFORCED
CONCRETE GIRDER BRIDGE
4 SPANS: 43'-6",
2 @ 73'-0", 43'-6"
24'-0" CLEAR ROADWAYS
SKEW: 20°27'30" LEFT
CR625 SOUTH OVER I-65

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HORIZONTAL SCALE		BRIDGE FILE	
AS SHOWN		165-062-04659 A	
VERTICAL SCALE		DESIGNATION	
AS SHOWN		-	
SURVEY BOOK		SHEETS	
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CONTRACT		PROJECT	
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